

**Trade and Industrial Education**  
**Course: Diesel: Suspension and Steering**  
**Course Code # 5716**  
**1 Credit**

**School Year** \_\_\_\_\_

**Term:** \_\_\_\_ **Fall** \_\_\_\_ **Spring**

Student:	Grade:
Teacher:	School:
Number of Competencies in Course: 34	
Number of Competencies Mastered:	
Percent of Competencies Mastered:	

**STANDARD 1.0: Students will demonstrate leadership, citizenship, and teamwork skills required for success in the school, community, and workplace.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
1.1	Develop a plan for self-improvement.			
1.2	Participate in SkillsUSA-VICA as an integral part of classroom instruction.			
1.3	Assess client expectations.			
1.4	Develop a working relationship with a mentor.			

**STANDARD 2.0: Students will demonstrate diesel technology safety practices, including Occupational Safety and Health Administration (OSHA) and Environmental Protection Agency (EPA) requirements for a diesel repair facility.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
2.1	Determine the safe and correct use of equipment used in a diesel repair facility for suspension and steering servicing.			
2.2	Use protective clothing, eye, and ear safety equipment.			
2.3	Use fire protection equipment.			
2.4	Follow OSHA and EPA regulations affecting suspension and steering diesel service technology.			
2.5	Respond to safety communications relating to suspension and steering diesel service technology.			
2.6	Pass with 100 % accuracy a written examination relating to safety issues.			
2.7	Pass with 100% accuracy a performance examination relating to safety.			
2.8	Maintain a portfolio record of written safety examinations and equipment examinations for which the student has passed an operational checkout by the instructor.			

**STANDARD 3.0: Students will properly test, diagnose, and repair steering systems.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
3.1	Analyze the function and operation of medium and heavy truck steering systems.			
3.2	Inspect, diagnose, repair or adjust steering column components.			
3.3	Inspect, diagnose, service, repair or replace steering unit components.			
3.4	Inspect, adjust, service, or replace steering linkage components.			

**STANDARD 4.0: Students will properly test, diagnose, and repair suspension systems.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
4.1	Analyze the function and operation of truck suspension systems.			
4.2	Inspect, diagnose, repair or replace front and rear suspension systems and components.			

**STANDARD 5.0: Students will properly diagnose and repair wheel alignment problems.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
5.1	Analyze the elements of medium/heavy truck wheel alignment.			
5.2	Check, diagnose, and adjust or repair wheel alignment and related components.			

**STANDARD 6.0: Students will properly diagnose and repair wheels and tires.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
6.1	Analyze the operation of wheels and tires.			
6.2	Diagnose and repair or replace wheels and tires.			

**STANDARD 7.0: Students will properly service and repair truck frames.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
7.1	Examine the characteristics of truck frames.			
7.2	Determine the function and operation of fifth wheels.			
7.3	Couple a truck and tractor.			
7.4	Service and repair truck frame.			

**STANDARD 8.0: Students will demonstrate communication skills required in the diesel service industry.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
8.1	Communicate and comprehend oral and written information typically occurring in diesel suspension and steering diagnosis and repair.			
8.2	Solve suspension and steering problems and make decisions using a logical process.			
8.3	Use teamwork skills to accomplish goals, solve problems, and manage conflict within groups.			

**STANDARD 9.0: Students will demonstrate interpersonal and employability skills required in the diesel service industry.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
9.1	Infer relationships between work ethics and organizational and personal job success.			
9.2	Develop customer service skills.			
9.3	Maintain a neat and orderly work area.			
9.4	Assess implications of diversity for communities and workplaces and various manufacturers.			
9.5	Explore supervisory and management roles in dealerships and fleet shops.			

Additional Comments \_\_\_\_\_